## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/535.325	
Source:	1FWP.	
Date Processed by STIC:	7/31/06	

## ENTERED



**IFWP** 

RAW SEQUENCE LISTING DATE: 07/31/2006
PATENT APPLICATION: US/10/535,325 TIME: 14:19:29

Input Set : A:\TSRI6516SEQ.TXT

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4 <110> APPLICANT: The Scripps Research Institute
 5
         Cheresh, David A.
         Paul, Robert
 7
        Eliceiri, Brian
 9 <120> TITLE OF INVENTION: Method of Treatment of Myocardial
10
        Infarction
12 <130> FILE REFERENCE: TSRI-651.6
14 <140> CURRENT APPLICATION NUMBER: 10/535,325
15 <141> CURRENT FILING DATE: 2005-05-18
17 <150> PRIOR APPLICATION NUMBER: 10/298,377
18 <151> PRIOR FILING DATE: 2002-11-18
20 <150> PRIOR APPLICATION NUMBER: 09/538,248
21 <151> PRIOR FILING DATE: 2000-03-29
23 <150> PRIOR APPLICATION NUMBER: 09/470,881
24 <151> PRIOR FILING DATE: 1999-12-22
26 <150> PRIOR APPLICATION NUMBER: PCT/US99/11780
27 <151> PRIOR FILING DATE: 1999-05-28
29 <150> PRIOR APPLICATION NUMBER: 60/087,220
30 <151> PRIOR FILING DATE: 1998-05-29
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34 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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37 <211> LENGTH: 2187
38 <212> TYPE: DNA
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47 caagagaget etaatggtae caagtgacag gttggettta etgtgaeteg gggaegeeag 120
48 ageteetgag aag atg tea gea ata eag gee gee tgg eea tee ggt aca
49
                  Met Ser Ala Ile Gln Ala Ala Trp Pro Ser Gly Thr
50
52 gaa tgt att gcc aag tac aac ttc cac ggc act gcc gag cag gac ctg
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53 Glu Cys Ile Ala Lys Tyr Asn Phe His Gly Thr Ala Glu Gln Asp Leu
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56 ccc ttc tgc aaa gga gac gtg ctc acc att gtg gcc gtc acc aag gac
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57 Pro Phe Cys Lys Gly Asp Val Leu Thr Ile Val Ala Val Thr Lys Asp
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60 ccc aac tgg tac aaa gcc aaa aac aag gtg ggc cgt gag ggc atc atc
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61 Pro Asn Trp Tyr Lys Ala Lys Asn Lys Val Gly Arg Glu Gly Ile Ile
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Input Set : A:\TSRI6516SEQ.TXT

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				atg Met						_					_	_	409
70	пец	Ser	шец	80	FIO	rrp	FIIC	1113	85	пуъ	116	TIIL	Arg	90	GIII	AIG	
	gag	caa	ctt	ctg	tac	cca	cca	aaa		aac	ata	ttc	cta		caa	gag	457
				Leu													
74			95		•			100		_			105				
76	agc	acc	aac	tac	ccc	gga	gac	tac	acg	ctg	tgc	gtg	agc	tgc	gac	ggc	505
77	Ser	Thr	Asn	Tyr	Pro	Gly	Asp	Tyr	Thr	Leu	Cys	Val	Ser	Cys	Asp	Gly	
78		110					115					120					
	_			cac		_		_			_	_	_		_		553
	_	Val	Glu	His	Tyr	_	Ile	Met	Tyr	His		Ser	Lys	Leu	Ser		
	125				<b>.</b>	130					135					140	601
				gtg Val													601
86	Asp	GIU	Giu	vai	145	PILE	GIU	ASII	Бец	150	GIII	Leu	vaı	GIU	155	IYL	
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				Ala					_	_					-		0.15
90				160				- 4	165	3			2	170			
92	atg	gag	ggc	aca	gtg	gcg	gcc	cag	gat	gag	ttc	tac	cgc	agc	ggc	tgg	697
93	Met	Glu	Gly	Thr	Val	Ala	Ala	Gln	Asp	Glu	Phe	Tyr	Arg	Ser	Gly	Trp	
94			175					180					185				
96	gcc	ctg	aac	atg	aag	gag	ctg	aag	ctg	ctg	cag	acc	atc	ggg	aag	ggg	745
	_	-	_		_		_	_	_	_		1		~3	_		
97	_		Asn	Met	Lys	Glu		Lys	Leu	Leu	Gln		Ile	Gly	_		
97 <sub>.</sub> 98	Ala	190			_		195	_				200		_	Lys	Gly	702
97 <sub>.</sub> 98 100	Ala ) gag	190 , ttc	gga	a gac	gtg	atg	195 ctg	ggc	gat	tac	: cga	200 999	, aac	aaa	Lys gto	Gly gcc	793 .
97 <sub>.</sub> 98 100 101	Ala ) gag L Glu	190 j tto i Phe	gga	a gac	gtg	atg	195 ctg Leu	ggc	gat	tac	: cga	200 999 Gly	, aac	aaa	Lys gto	Gly gcc Ala	793 .
97. 98 100 101	Ala gag Glu 2 205	190 g tto i Phe	gga Gly	gac Asp	gtg Val	atg Met 210	195 ctg Leu	ggc	gat Asp	tac Tyr	cga Arg 215	200 999 Gly	aac Asn	aaa Lys	Lys gto Val	Gly gcc Ala 220	793 . 841
97 98 100 101 102	Ala gag Glu 205	190 tto Phe	gga Gly	a gac Asp	gtg Val	atg Met 210	195 r ctg Leu gac	ggc	gat Asp act	tac Tyr	cga Arg 215	200 ggg Gly gcc	aac Asn	aaa Lys	Lys gto Val	Gly gcc Ala	
97 98 100 101 102	Ala gag Glu 205 gtc Val	190 tto Phe	gga Gly	a gac Asp	gtg Val	Met 210 aac Asn	195 r ctg Leu gac	ggc	gat Asp act	tac Tyr	cga Arg 215 cag	200 ggg Gly gcc	aac Asn	aaa Lys	Lys gto Val	Gly gcc Ala 220 gaa Glu	
97. 98 100 101 102 104 105 106	Ala ) gag l Glu 2 205 l gtc i Val i gcc	190 g tto g Phe g aag g aag Lys	gga Gly tgc Cys	a gac Asp att Ile	gtg Val aag Lys 225	Met 210 aac Asn	195 ctg Leu gac Asp	ggc Gly gcc Ala	gat Asp act Thr	tac Tyr gcc Ala 230	cga Arg 215 cag Gln	200 ggg Gly gcc Ala	aac Asn tto Phe	aaa Lys ctg	Lys  gto Val  gct Ala 235	Gly gcc Ala 220 gaa Glu cctg	
97 98 100 102 104 105 106 108	Ala  gag  Glu  gto  Val  gco  Ala	190 g tto g Phe g aag g aag Lys	gga Gly tgc Cys	a gac Asp att Ile atg	aag Lys 225 acg	Met 210 aac Asn	195 ctg Leu gac Asp	ggc Gly gcc Ala	gat Asp act Thr cat	tac Tyr gcc Ala 230 agc	cga Arg 215 cag Gln	200 ggg Gly gcc Ala	aac Asn tto Phe	aaa Lys ctg Leu cag	Lys gto Val gct Ala 235	Gly gcc Ala 220 gaa Glu	841
97. 98 100 101 102 104 105 106 108	Ala  gag Glu 205 gtc Val 3 gcc Ala	190 y tto i Phe c aag Lys tca Ser	gga Gly tgc Cys Cys	a gac / Asp c att s Ile c atg . Met 240	aag Lys 225 acg	Atg Met 210 aac Asn caa	195 ctg Leu gac Asp	ggc Gly gcc Ala cgg	gat Asp act Thr cat His	tac Tyr gcc Ala 230 agc	cga Arg 215 cag Gln aac	200 ggg Gly gcc Ala ctg	aac Asn tto Phe gtg	ctg ctg cag Gln	Lys gto Val gct Ala 235	Gly gcc Ala 220 gaa Glu ctg	841 889
97. 98 100 101 102 104 106 108 110	Ala  ) gag  ] Glu  2 205  ] gtc  5 Val  6 gc  3 gc  6 Ala  ) gg	190 g tto phe aag Lys tca Ser	gga Gly tgc Cys Cys Val	a gac Asp att att Ile atg Met 240	gtg Val aag Lys 225 acg Thr	atg Met 210 aac Asn caa Gln	195 ctg Leu gac Asp ctg Leu	ggc Gly gcc Ala cgg Arg	gat Asp act Thr cat His 245	tac Tyr gcc Ala 230 agc Ser	cga Arg 215 cag Gln aac Asn	200 ggg Gly gcc Ala ctg Leu	aac Asn tto Phe gtg Val	ctg ctg cag Gln 250	Lys gto Val gct Ala 235 cto Leu gag	Gly gcc Ala 220 gaa Glu ctg Leu tac	841
97. 98 100 101 102 104 105 106 112 113	Ala  gag Glu 205 Glu 205 Glu 307 Glu 308 Glu 309	190 g tto phe aag Lys tca Ser	g gga g Gly g tgo g Cys Val	a gac Asp att att atg Met 240 gtg	gtg Val aag Lys 225 acg Thr	atg Met 210 aac Asn caa Gln	195 ctg Leu gac Asp ctg Leu	ggc Gly gcc Ala cgg Arg	gat Asp act Thr cat His 245 999 Gly	tac Tyr gcc Ala 230 agc Ser	cga Arg 215 cag Gln aac Asn	200 ggg Gly gcc Ala ctg Leu	y aac Y Asn E tto Phe Y gtg Val	ctg cag Gln 250	Lys gto Val gct Ala 235 cto Leu gag	Gly gcc Ala 220 gaa Glu ctg	841 889
97. 98 100 100 100 100 100 110 110 1112 113	Ala  ) gag  Glu  2 205  i gto  i Val  3 gco  Ala  ) ggo  Gly  i Gly	190 g tto g tto g tto g tag e tca g tg g yal	gga gga g tgg g Cys Val val g atc	a gac Asp att att te atg Met 240 gtg	gtg Val aag Lys 225 acg Thr	atg Met 210 aac Asn caa Gln gag	195 Ctg Leu Sgac Asp Ctg Leu aag	ggc Gly gcc Ala cgg Arg ggc Gly 260	gat Asp act Thr cat His 245 999 Gly	tac Tyr gcc Ala 230 agc Ser	cga Arg 215 cag Gln aac Asn	ggg Gly gcc Ala ctg Leu atc	y aac Asn ttc Phe y gtg Val gtc Val 265	cag Gln 250 act	Lys gto Val gct Ala 235 cto Leu gag	Gly gcc Ala 220 gaa Glu ctg Leu tac	841 889 937
97. 98 100 101 102 104 108 108 110 112 113 114	Ala  gag Glu 2 205 Glu 3 gcc Ala 9 Ala 9 Gly 1 gcc 6 Gly 1 gcc 6 Gly 1 gcc 6 Gly 1 gcc 6 Gly 1 gcc	190 g tto i Phe i Phe i tca c tca c Ser c gtg val	gga g tgo g tgo cys val val g ato 11e 255	a gac Asp att att atg Met 240 gtg val	gtg Val aag Lys 225 acg Thr gag Glu	atg Met 210 aac Asn caa Gln gag Glu	195 Ctg Leu gac Asp ctg Leu aag Lys	ggc Gly gcc Ala cgg Arg ggc Gly 260 gac	gat Asp act Thr cat His 245 999 Gly	tac Tyr gcc Ala 230 agc Ser ctc	cga Arg 215 cag Gln aac Asn tac	200 ggg Gly gcc Ala ctg Leu atc Ile	y aac Asn tto Phe y gtg Val 265 agg	cag Gln 250 act Thr	Lys gto Val gct Ala 235 cto Leu gag	Gly gcc Ala 220 gaa Glu ctg Leu tac Tyr	841 889
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97. 98 100 101 102 104 105 106 112 113 114 116 120 121 122 124	Ala  gag Glu 205 Glu 205 Glu 307 Glu 308 Glu 309 Ala 309 Ala 309 Glu 3	190 g tto phe c aac Lys c tca Ser gtc gtc Ala 270 ctc Leu ctc	gga g Gly g tgc G Cys Val g atc 255 aag Lys g ggc	a gac y Asp c att s Ile c atg . Met . 240 c gtg c Val s Gly c gga c Gly tac	gtg Val aag Lys 225 acg Thr gag Glu agc Ser	atg Met 210 aac Asn caa Gln gag Glu ctt Leu tgt Cys 290 gag	195 Ctg Ctg Gac Asp Ctg Leu Lys Val 275 Ctc Leu	ggc Gly gcc Ala cgg Arg ggc Gly 260 gac Asp ctc Leu	gat Asp act Thr cat His 245 ggg Gly tac Tyr aag Lys	tac Tyr gcc Ala 230 agc Ser ctc Leu ttc	cga Arg 215 cag Gln aac Asn tac Tyr cgg Arg	200 ggggGly gcc Ala ctg Leu atc Ile tct Ser 280 cta Leu cat	y aac y Asn ttc Phe y gtg val 265 agg Arg	caga Caga Caga Caga Caga Caga Caga Caga	Lys gto Val gct Ala 235 cto Leu gag Glu cgg Arg	Gly  gcc Ala 220 gaa Glu ctg Leu tac Tyr tca Ser gag Glu 300 gct	841 889 937 985
97. 98 100 101 102 104 105 106 112 113 114 116 120 121 122 124 125	Ala  gag Glu 205 Glu 205 Glu 307 Glu 308 Glu 309 Glu 3	190 g tto phe c aac Lys c tca Ser gtc gtc Ala 270 ctc Leu ctc	gga g Gly g tgc G Cys Val g atc 255 aag Lys g ggc	a gac y Asp c att s Ile c atg . Met . 240 c gtg c Val s Gly c gga c Gly tac	gtg Val aag Lys 225 acg Thr gag Glu agc Ser gac	atg Met 210 aac Asn caa Gln ctt Leu tgt Cys 290 gag Glu	195 Ctg Ctg Gac Asp Ctg Leu Lys Val 275 Ctc Leu	ggc Gly gcc Ala cgg Arg ggc Gly 260 gac Asp ctc Leu	gat Asp act Thr cat His 245 ggg Gly tac Tyr aag Lys	tac Tyr gcc Ala 230 agc Ser Leu ttc Phe	cga Arg 215 cag Gln aac Asn tac Tyr cgg Arg tcg Ser 295 gtg	200 ggggGly gcc Ala ctg Leu atc Ile tct Ser 280 cta Leu cat	y aac y Asn ttc Phe y gtg val 265 agg Arg	caga Caga Caga Caga Caga Caga Caga Caga	Lys gto Val gct Ala 235 cto Leu gag Glu cgg Arg	gly gcc Ala 220 gaa Glu ctg Leu tac Tyr ca Ser gag Glu 300 gct Ala	841 889 937 985
97. 98 100 101 102 104 105 106 108 112 113 114 116 121 122 124 125 126	Ala  gag Glu 205 Glu 205 Glu 307 Glu 308 Glu 309 Glu 3	190 g tto g the g tag g to g t	gga g tgo g tgo g tgo a gto l ato l ato l ato g	a gac y Asp att Ile atg Asp Y Asp	gtg Val aag Lys 225 acg Thr gag Glu agc Ser gac Leu 305	atg Met 210 aac Asn caa Glu ctt Leu tgt Cys 290 gag Glu	195 Ctg Ctg Sgac Asp Ctg Leu Lys Stg Ctc Ctc Leu	ggc Gly gcc Ala cgg Arg 260 gac Asp ctc Leu aac	gat Asp act Thr cat His 245 Gly tac Tyr aag Lys aat Asn	tac Tyr gcc Ala 230 agc Ser Leu ttc Phe ttc	cga Arg 215 cag Gln aac Asn tac Tyr cgg Arg tcg Ser 295 gtg	200 ggggGly gcc Ala ctg Leu atc Ile tct Ser 280 cta Leu cat His	y aac Y Asn E tto Phe Y Val 265 A Arg Asp Cga Arg	caga Gln 250 act Thr Gly gtc Val	Lys gto Val gct Ala 235 cto Leu gag Glu cgg Arg tgo Cys ctg Leu 315	gly gcc Ala 220 gaa Glu ctg Leu tac Tyr ca Ser gag Glu 300 gct Ala	841 889 937 985

Input Set : A:\TSRI6516SEQ.TXT

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133 Phe Gly Leu Thr Lys Glu Ala Ser Ser Thr Gln Asp Thr Gly Lys Leu
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136 cca gtc aag tgg aca gcc cct gag gcc ctg aga gag aag aaa ttc tcc
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137 Pro Val Lys Trp Thr Ala Pro Glu Ala Leu Arg Glu Lys Lys Phe Ser
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140 act aag tet gae gtg tgg agt tte gga ate ett ete tgg gaa ate tae
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141 Thr Lys Ser Asp Val Trp Ser Phe Gly Ile Leu Leu Trp Glu Ile Tyr
142 365
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145 Ser Phe Gly Arg Val Pro Tyr Pro Arg Ile Pro Leu Lys Asp Val Val
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148 cet egg gtg gag aag gge tac aag atg gat gee eee gae gge tge eeg
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149 Pro Arg Val Glu Lys Gly Tyr Lys Met Asp Ala Pro Asp Gly Cys Pro
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153 Pro Ala Val Tyr Glu Val Met Lys Asn Cys Trp His Leu Asp Ala Ala
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171 ggacccctcg ccccagcctc attccccatt ctgtgtccca tgtcccgtgt ctcctcggtc 1996
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187 Gly Asp Val Leu Thr Ile Val Ala Val Thr Lys Asp Pro Asn Trp Tyr
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Input Set : A:\TSRI6516SEQ.TXT

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193 194	Pro	Trp	Phe	His	Gly 85	Lys	Ile	Thr	Arg	Glu 90	Gln	Ala	Glu	Arg	Leu 95	Leu
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	Tyr	Arg		Met	Tyr	His	Ala 135		Lys	Leu	Ser	Ile 140		Glu	Glu	Val
201	Tyr 145		Glu	Asn	Leu	Met 150		Leu	Val	Glu	His 155		Thr	Ser	Asp	Ala 160
		Gly	Leu	Cys	Thr 165		Leu	Ile	Lys	Pro 170		Val	Met	Glu	Gly 175	
	Val	Ala	Ala	Gln 180		Glu	Phe	Tyr	Arg 185		Gly	Trp	Ala	Leu 190	Asn	Met
	Lys	Glu	Leu 195		Leu	Leu	Gln	Thr. 200		Gly	Lys	Gly	Glu 205		Gly	Asp
	Val	Met 210		Gly	Asp	Tyr	Arg 215		Asn	Lys	Val	Ala 220		Lys	Cys	Ile
211	Lys 225		Asp	Ala	Thr	Ala 230		Ala	Phe	Leu	Ala 235		Ala	Ser	Val	Met 240
		Gln	Leu	Arg	His 245		Asn	Leu	Val	Gln 250		Leu	Gly	Val	Ile 255	Val
	Glu	Glu	Lys	Gly 260		Leu	Tyr	Ile	Val 265		Glu	Tyr	Met	Ala 270	Lys	Gly
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221	Leu 305		Gly	Asn	Asn	Phe 310		His	Arg	Asp	Leu 315		Ala	Arg	Asn	Val 320
		Val	Ser	Glu	Asp 325		Val	Ala	Lys	Val 330		Asp	Phe	Gly	Leu 335	
	Lys	Glu	Ala	Ser 340		Thr	Gln	Asp	Thr 345	Gly	Lys	Leu	Pro	Val 350	Lys	Trp
	Thr	Ala	Pro 355	Glu	Ala	Leu	Arg	Glu 360	Lys	Lys	Phe	Ser	Thr 365		Ser	Asp
	Val	Trp	Ser	Phe	Gly	Ile	Leu 375		Trp	Glu	Ile	Tyr 380		Phe	Gly	Arg
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		Gly	Tyr	Lys	Met 405		Ala	Pro	Asp	Gly 410		Pro	Pro	Ala	Val 415	
	Glu	Val	Met	Lys 420		Cys	Trp	His	Leu 425		Ala	Ala	Met	Arg 430	Pro	Ser
	Phe	Leu	Gln		Arg	Glu	Gln	Leu		His	Ile	Lys	Thr		Glu	Leu

Input Set : A:\TSRI6516SEQ.TXT

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257								Me	et G	Ly C	ys I	le L	ys S	er L	ys G	lu Asn	
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	ьуs 10	ser	.Pro	Ala	тте	Lys	Tyr	Arg	Pro	GIU		Thr	Pro	GIU	Pro		
262 264		202	aat	ata	200	15 Cat	tat	~~=	~~=	~~~	20	act	202	ata	tca	25	330
	_			_	_	cat His			_	_				_			330
266	501	1111	DCI	Val	30	1115	1 <b>y</b> 1	Gry	ALG	35	110	1111	1111	Val	40	FIO	
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		_				Ala	_			_	_			_	_		
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VERIFICATION SUMMARY

DATE: 07/31/2006

PATENT APPLICATION: US/10/535,325

TIME: 14:19:30

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